

REMARKS

Claim 1 has been amended.

The Examiner has rejected applicant's claims 1-3 and 8 under 35 USC 102(b) as being anticipated by the Lane, et al. (U.S. Pat. No. 5,377,051) patent. Applicant has amended applicant's independent claim 1 and with respect to this claim, as amended, and its dependent claims, the Examiner's rejection is respectfully traversed.

Applicant's independent claim 1 has been amended to recite a reproducing apparatus comprising reproducing means for reproducing moving image data for normal reproduction and image data for high-speed reproduction different from the moving image data for normal reproduction from a recording medium which records thereon moving image data train including the moving image data for normal reproduction which is encoded by using intra-frame coding and inter-frame coding and the image data for high-speed reproduction, an interface for outputs in a form of encoded data the moving image data for normal reproduction and the image data for high-speed reproduction, each of which is reproduced by the reproducing means to an outside of the reproducing apparatus, mode setting means for setting one of a normal reproduction mode in which the reproduction means reproduces the moving image data for normal reproduction and the image data for high-speed reproduction and a high-speed reproduction mode in which the reproducing means reproduces the image data for high-speed reproduction, and decoding means for selectively decoding one of the moving image data for normal reproduction and the image data for high-speed reproduction, each of which is reproduced by the reproducing means, according to the mode set by the mode setting means, wherein in the normal reproduction mode, the interface multiplexes and outputs in a form of encoded data the moving image data for normal reproduction and the image data for

high-speed reproduction and the decoding means decodes the moving image data for normal reproduction, and wherein in the high-speed reproduction mode, the interface stops outputting the image data for high-speed reproduction and the decoding means decodes the image data for high-speed reproduction.

The construction recited in applicant's amended independent claim 1 is not taught or suggested by the cited art of record. In particular, the Examiner has argued that the Lane, et al. patent discloses:

“a reproducing apparatus comprising: reproducing means for reproducing moving image data for normal reproduction and image data for high-speed reproduction different from the moving image data for normal reproduction from a recording medium... (Fig. 11; col. 7, lines 1-8 – MPEG encoding; col. 52, lines 50-58 and col. 53, lines 36-44 – VTR apparatus capable of outputting moving image data for normal and high-speed reproduction; the moving image data for high-speed reproduction and the moving image data for normal reproduction are different in fact that for high-speed reproduction only the frames used in high-speed reproduction are reproduced and for normal reproduction all frames are reproduced thereby creating two different output sequences); an interface (406) for outputs in a form of encoded data the moving image data for normal reproduction and the image data for high-speed reproduction, each of which is reproduced by the reproducing means (col. 53, lines 36-44); mode setting means for setting one of a normal reproduction mode in which the reproducing means reproduces the moving image data for normal reproduction and the image data for high-speed reproduction and a high-speed reproduction mode in which the reproducing means reproduces the image data for high-speed reproduction (col. 53, lines 36-48);... wherein in the normal reproduction mode, the interface multiplexes and outputs in a form of encoded data the moving image data for normal reproduction and the image data for high-speed reproduction and the decoding means decodes the moving image data for normal reproduction, and wherein [in] the high-speed reproduction mode, the interface stops outputting the image data for normal reproduction, and the decoding means decodes the image data for high-speed reproduction (col. 53, lines 35-48 – some frames are used for both normal reproduction and high-speed reproduction, the I-frames used for high-speed reproduction are the same I-frames that are used during normal reproduction, therefore when normal reproduction is selected the I-frames used for high-speed reproduction are still output and decoded since they are part of the moving image data for normal reproduction as well).”

Applicant respectfully disagrees with the Examiner's arguments and believes that the Examiner's arguments have misconstrued applicant's invention recited in applicant's

independent claim 1. In particular, the Examiner has argued that Lane discloses that in the high-speed reproduction mode, the interface stops outputting the image data for normal reproduction and the decoding means decodes the image data for high-speed reproduction. However, applicant's independent claim 1 recites that in the high-speed reproduction mode, the interface stops outputting the image data for high-speed reproduction, not the image data for normal reproduction, so that the high-speed reproduction image data is reproduced by the reproducing means but not output to an external apparatus by the interface in the high-speed reproduction mode.

Applicant has reviewed the Lane, et al. patent and believes that Lane, et al. is completely silent as to stopping outputting of the image data for high-speed reproduction by the interface that outputs the image data to an outside of the reproducing apparatus and decoding the image data for high-speed reproduction during high-speed reproduction mode, as recited in applicant's claim 1. In particular, Lane, et al. discloses a video receiver, such as a VTR, which records and reproduces moving image data in a normal reproduction mode and a trick play mode, e.g. fast forward, search and reverse. Col. 1, lines 1-25. The VTR in Lane, et al. includes a playback circuit (400 in FIG. 11) which reads recorded data on a tape and reproduces the data in accordance with a selected reproduction mode. See, FIG. 11; Col. 52, lines 50-68; Col. 53, lines 49-52. The playback circuit of Lane, et al. includes a playback packet filter (406 in FIG. 11) which receives user command signals that indicate whether trick playback or normal playback operation has been selected, and which also receives video/audio data packets read from the tape and decoded by an error correction circuit (404 in FIG. 11). The playback packet filter (406) outputs data packets which are designated as being for use at the particular playback speed, such that in the normal playback mode, the packet filter (406)

outputs only data packets identified with normal playback operation and in the trick play mode, the packet filter (406) outputs only data packets identified with the selected trick play operation. Col. 53, lines 49-62. In Lane, et al., the data packets outputted from the playback packet filter (406) are processed in a reformater (410 in FIG. 11) and/or a VTR command signal generator (408 in FIG. 11), and are thereafter provided to a digital VTR port (412 in FIG. 11) which supplies the video/audio data packets to an external receiver. Col. 54, lines 5-42. Lane, et al. also discloses that in other embodiments the receiver may be included within the VTR so that the video/audio data packets are supplied to the internal receiver which then outputs the video/audio data to a monitor or a television receiver. Col. 54, lines 42-45.

Thus, the Lane, et al. patent discloses that image data reproduced from a tape is filtered, decoded and output to an external receiver via the digital VTR port or to a monitor via an internal receiver in both the normal reproduction mode and the trick play reproduction mode. See, FIG. 11; Col. 54, lines 34-45. Lane, et al. makes no mention of any interface, e.g. digital VTR port or internal receiver, stopping outputting the image data for high-speed reproduction, i.e. trick play image data, during the high-speed reproduction mode, i.e. trick play reproduction mode. Instead, the trick play image data in Lane, et al. is outputted to the external receiver and/or monitor in the trick play reproduction mode, while the normal play image data is outputted to the external receiver and/or monitor in the normal reproduction mode.

Moreover, as disclosed in Col. 53, lines 53-62 of the Lane, et al. patent, in the normal reproduction mode, only the moving image data for normal reproduction is outputted by the playback packet filter (406), and in the trick play reproduction mode, only the data for trick play reproduction is outputted by the playback packet filter. Thus, there is no teaching or

suggestion in Lane, et al. of multiplexing and outputting both the normal reproduction moving image data and the high-speed reproduction moving image data in the form of encoded data to the external apparatus via the interface in the normal reproduction mode and to reproduce but not output to the external apparatus the high-speed image data in the high-speed reproduction mode.

Accordingly, applicant's amended independent claim 1, which recites an interface for outputs in a form of encoded data the moving image data for normal reproduction and the image data for high-speed reproduction, each of which is reproduced by the reproducing means to an outside of the reproducing apparatus, wherein in the normal reproduction mode, the interface multiplexes and outputs in a form of encoded data the moving image data for normal reproduction and the image data for high-speed reproduction and the decoding means decodes the moving image data for normal reproduction, and wherein in the high-speed reproduction mode, the interface stops outputting the image data for high-speed reproduction and the decoding means decodes the image data for high-speed reproduction, and its dependent claims, thus patentably distinguish over the Lane, et al. patent.

In view of the above, it is submitted that applicant's claims, as amended, patentably distinguish over the cited art of record. Accordingly, reconsideration of the claims is respectfully requested.

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